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PLANNING AND DEVELOPMENT PROCEDURES LEADING TO THE CONSTRUCTION OF EDUCATIONAL FACILITIES.

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ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLL.

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DESCRIPTORS- *COLLEGE PLANNING, *CONSTRUCTION NEEDS, *DATA COLLECTION, *EDUCATIONAL FACILITIES, *JUNIOR COLLEGES, CONSTRUCTION COSTS, DATA ANALYSIS, EDUCATIONAL SPECIFICATIONS, METHODOLOGY, STUDENT ENROLLMENT,

THE PLANNING AND DEVELOPMENT PROCEDURES OUTLINED ARE FOR USE BY COLLEGE DISTRICT OFFICIALS AND PERSONNEL, ARCHITECTS, ENGINEERS, PLANNING CONSULTANTS, AND STATE OFFICERS IN CONNECTION WITH THE CONSTRUCTION AND FINANCING OF JUNIOR COLLEGE EDUCATIONAL FACILITIES. THE PURPOSE OF THE PROCEDURES IS TO EXPEDITE THE PLANNING PROCESS AND TO PROVIDE A MEDIUM FOR INTELLIGENT, ORGANIZED COMMUNICATION AMONG ALL CONCERNED. THE SEQUENTIAL STEPS IN THE METHOD ARE -- (1) STATEMENT OF PROJECT NEED, (2) SELECTION OF ARCHITECT, (3) REQUEST FOR FUNDS, (4) EDUCATIONAL SPECIFICATIONS, (5) SCHEMATIC DESIGN PHASE, (6) DETAILED SPECIFICATIONS, (7) DESIGN DEVELOPMENT, (8) FINANCIAL PROGRAM, (9) CONSTRUCTION DOCUMENT PHASE, (10) BIDDING PROCEDURES, (11) RECORDS REQUIREMENTS, (12) CONSTRUCTION ACCOUNTS AND, (13) MINOR BUILDING PROJECTS. FORMS ARE INCLUDED FOR COLLECTING DATA NEEDED IN IMPLEMENTING OF THE STEPS. (HH)

PLANNING AND DEVELOPMENT PROCEDURES LEADING TO THE CONSTRUCTION OF EDUCATIONAL FACILITIES

Adopted by

Arisone State Board of Directors
For Junior Colleges
July 17, 1967

Propored by

Jour T. Condon Consultegt

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

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ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLLEGES Office of the Executive Director

Planning and Development Procedures Leading to the Construction of Educational Pacilities

Introduction

The Planning and Development Procedures for Junior Colleges in Arizona are to be used by college district officials and personnel, architects, engineers, planning consultants, and state officials in connection with the construction and financing of junior college educational facilities. The purpose of the procedures is to expedite the planning process and to provide a medium for intelligent, organized communication among all concerned.

These procedures provide documentation of decisions reached and approved by all responsible parties prior to the time an architect has committed a building design to the final working drawings and specification stage. Not only do these procedures provide check points in the planning of college facilities, they also provide a check list for documenting basic planning and financing decisions. Its use, therefore, should improve both the understandings and working relationships among all parties irrectly concerned with and responsible for a given building project.

The proper use of the Planning and Development Procedures will give greater assurance to all related agencies:

- 1) that adequate planning time has been given each project;
- 2) that educational decisions affecting design have been considered in the early planning phases of each project;
- 3) that the completed project will reflect accurately the decisions reached during the planning and development stage:
- 4) that dollars spent on the project have twen wisely invested.



ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLLEGES Office of the Executive Director

Planning and Development Procedures Leading to the Construction of Educational Facilities

Guidelines

The purpose of these procedures is to establish an orderly project development pattern, so insure sound planning and project refinement, to clarify areas of responsibility, and to effect an efficient working relationship among all agencies involved in the building project.

When the state board accepts federal or other agency funds, it is recognized that building procedures required by these grants or loans may take precedence over the stipulations of this document.

The following requirements are in sequential steps.

I. Statement of Project Need

The district governing board will inform the state board of anticipated building needs and plans two years ahead of actual need, if possible. The notification will include the following points of information:

- A. A brief descriptive narrative of the need for facilities.
- B. Enrollment analysis (Ariz. J.C. Facilities Project Form #1, 1967).
- C. Cyrriculum analysis (Ariz. J.C. Facilities Project Form #11, 1967).
- D. Space allocations (Aris. J.C. Facilities Project Form #III, 1967).
- E. Pinancial amalysis (Ariz. J.C. Facilities Project Form #IV, 1967).
- F. Preliminary planning, development and construction calendar.

II. Selection of Architect

The district will choose its architect who will enter into a contract with the state bound for and in cooperation with the district governing board.

The contract document -- prepared by the State Board in conformity with (1) laws of Arizona; (2) the policies of the State Board; and (3) the Arizona Society of the Architects
Institute of American's agreement form (1967 edition) -- will be approved



in formal resolution by the state board at a regularly scheduled meeting, signed by a member of the district board and a representative of the state board.

III. Request for Preliminary Planning Funds

Upon request of the college and/or the architect, with the approval of the board, the state board will apply for preliminary planning funds through HEFA or provide same from state board budget.

IV. Educational Specifications

Educational specifications are to include such information as the philosophy of the college, the kinds of buildings proposed, (i.e. general classroom, physical science, library, etc.), identification of the programs to be housed, the estimated numbers of students in each program (based on enrollment and curriculum analysis), spatial relationships, the number and kinds of rooms (i.e. 2 seminar, 2 lecture with 200 seats each), equipment needs (television, laboratory tables, blackboards, etc.) and other descriptions useful in undertaking the project requirements.

These shall be prepared by the college with consultants and the architect intimately involved.

V. Schematic Design Phase

The provisions of Articles 3.1.1 thru 3.1.3 of the contract with the architect will apply in this place of the project development.

The district will supply the architect with educational specifications upon which he will base his recommended solution to the project problems. The architect will prepare a general description of the project and its probable cost for the district board and the state board's approval. (Ariz. J.C. Facilities Project Form #5, 1967, Section A, Items 1-5 and Section B)

A preliminary construction calendar will be developed jointly by the college, architect, and executive director of junior colleges.

The architect will work with the district board in master planning or reviewing past master plans for the maximum

optimum future use of the campus. There shall be a financial feasibility study for the project made by the financial advisor to the college (Ariz. J.C. Facilities Project Form #VI, 1967). The district board and state board, in the matter of approval of documents, and other responsibilities as owner, throughout the project, are governed by Article V of the contract with the architect.

Upon receiving the written approval of the hoards of the preliminary design phase, the college, architect, and financial advisor will proceed to the next phase.

VI. Detailed Educational Specifications

These shall be prepared by the college with consultants and the architect intimately involved.

Detailed educational specifications are to include space by space, utility outlets, sound treatment, desired lighting, color scheme, floor covering, equipment and furniture location, etc.

VII. Design Development

The provisions of Articles 3.2.1 through 3.2.3 and Article 15 of the contract with the architect will apply in this phase of the project development.

The detail educational specifications will serve as the basic document during this phase. The district will prepare a detailed description of placement of equipment and utilities for each space within each project building. Close articulation is needed between consultants, architect, and college.

The project construction calendar, developed jointly by the college, architect, and executive director of junior colleges, will be prepared for approval by the separate boards.

VIII. Financial Program

Based on an analysis of Building Project Form #V, a formal resolution from the district board will be recommended to the state board, pursuant to Sec. 15-686, A.R.S. the source of funds for the estimated project costs.

Upon receiving approval by the district board and state board of the financial program, authorization will be given to the college and the financial advisor to proceed with the documents for advertising.



IX. Construction Document Phase

Working drawings and architectural specifications will be developed by the architect with assistance from the college. (Complete Section A, Items 6-8 of Ariz. J.C. Facilities Project Form #V, 1967)

The provisions of Articles 3.3.1 through 3.3.2 of the contract apply in this phase of project development.

The boards or their agents will review, based upon an agreed schedule, architect's work during this phase.

The documents will be reviewed by the boards or their representatives and approved before advertising bids.

X. Bidding Procedures and Awarding Contract

The district and state boards will establish, in cooperation with the architect, the bidding calendar.

The architect will include his bid specifications alternates and/or additives to permit flexibility in bidding.

The construction contract will be awarded by the Arizona State Buard of Directors for Junior Colleges, or its delegated representatives in cooperation with the district board. In case of bids coming in over available funds, the state board will, with the advice of its legal counsel and the architect, determine whether to negotiete a contract or to reject bids. Contract will be awarded on the lowest acceptable bid within the availability of funds.

The state board may delegate by resolution authority to approve and reject change orders which do not make significant changes in the plans and specifications and do not exceed a specific amount of money to be determined for the project.

XI. Records Requirements

The architect is responsable for securing and preparing the necessary documents for final payment following the acceptance of the project. "Lien Waivers" shall be secured in accordance with Sections 33-981 and 33-993 of the A.R.S. The architect shall also present to the Executive Director of the state board and to the district board the project plan as built.



XII. Construction Accounts

Building funds will be maintained in the district pursuant to the laws of Arizona and the accounting requirements of the Arizona State Board of Directors for Junior Colleges.

XIII. Minor Building Projects

On building projects planned, pursuant to Sec. 34-201, A.R.S., or projects with gross cost not to exceed \$10,000, rursuant to Sec. 32-144, A.R.S., the local district may petition the state board for exemption from the provisions of these requirements and, upon good cause being shown, the state board, after hearing, may waive the requirements of these procedures, except Sections VI and XII. Upon the completion of the project, a description of the project will be furnished the state board for invertory purposes.



ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLLEGES Office of the Executive Director

Building Procedures Submittal and Approval Dates

Name o	of C	ollege	
Build	ing !	Project	
ı.		trict Governing Board's documents to S lding needs.	State Board of anticipated Date Submitted and/or
			Approved
	A.	A brief descriptive narrative of the need for facilities.	
	B.	Enrollment analysis (Ariz. J.C. Facilities Project Form #1, 1967)	
	C.	Curriculum analysis (Ariz. J.C. Facilities Project Form #11, 1967)	The same of the sa
	Ŋ.	Space allecations (Ariz. J.C. Fa- cilities Project Form #III, 1967)	A THE RESIDENCE AND ADDRESS OF THE PROPERTY OF
	E.	Financial analysis (Ariz. J.C. Facilities Project Form #IV, 1967)	
	F.	Preliminary planning, development, and construction calendar,	
II.		retion of architect to bound contracts with anchitect	
III.		quest for preliminary planning times State Board by District Board	
IV.	Ed	ucative specifications	
٧.	Pr	eligizery design plane	
	Ą.	Cappus master plan	
	3.	Development of preliminary drawing by architect	
	c.	Statement of probable con- struction cost by sighisect	Companies and the same and and the same and



:	D.	Preliminary construction calendar developed by college architect and state office	
	E.	Financial feasibility study for project by financial advisor	
	F.	Approval of preliminary drawings by district board, state board	
	G.	Approval of financial plan of support by the District Board, by the State Board	
	н.	State board authorization to college, architect, and finan- tial agent to proceed to next phase	
VI.		ailed educational specifications*	
	ypp	roved by District Board	
VII.	Des	ign development phase*	
	A.	Working drawings and architect- ural specifications developed by architect with assistance from the college	The state of the s
	В.	Development of the construction calendar jointly by the college, architect and executive director of the state board	
	c.	Approval for the architect and financia! advisor to proceed with next phase of project- District Board approval	
VIII	D:	proval of financial program by the strict Board, ate Board	
	A	board to prepare necessary documents for advertising	
* St	ate evie	board allows district board and respect w and approve. The state board shall be en and/or oral communication of the pro-	ctive state board member to be informed periodically by ogress of the project.

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IX.	Bone	d Advertisement	
	A.	Revenue bond advertising administered by the fiscal agent - bid dates	
	в.	General obligation bond election administered by the college - Advertising dates	
		Bond election	
x.	Bid	ding Procedures*	
	۸,	Construction advertising admin- istered by the college - adver- tising dates	
	В.	Bid opening	
	c.	Bid awarded	
	D.	Notice to Proceed	
	E.	Start of construction	
XI.	Rec	ord Requirements	
	A.	Receipt of project plans	

*State Board allows district board and respective state heard manher to review and approve. The state board shall be informed periodically by written and/or oral communication of the progress of the project.



Ariz. J.C. Facilities Project Form #1. 1967

ARIZONA STATE BOARD OF DIRECTORS
FOR JUNIOR COLLEGES
Office of the Executive Director

Enrollment Analysis

Cuidelines

An enrollment analysis provides the necessary data upon which all the other planning and development documents depend. However, what the student enrollment will be in the future is always conjectural.

A projection of enrollment cannot be expected to be exact but can caly point the direction of change. Projections are necessary tools for anticipating and planning for future expansion. For most users, the value lies not in their absolute accuracy, but in their functions as indicators of trends and measures of approximate change.

Five categories have been designed into the analysis of enrollments to expose enrollment characteristics that are not only important to the individual college officials but also to the Governing Board and State Board of Directors for Junior Colleges. These categories will reveal which segments of the enrollment projections are least accurate. The error or errors can then be reduced over time.

Sections A, B, D and E have direct relevance to facility planning. In general, community college campuses are built to house the day enrollments only. Evening enrollments can be accommodated in the campus space allowed for day students or in rented facilities within high schools.

Section A - Students entering college for the first time are to be classified in this section. The total number of high school graduates in a given year within the district is requested also. This figure serves for comparison purposes only.

Section B - Students who have had prior college emperioned are classified in this section.

Section C - Students enrolled in evening classes on campus or off campus are classified in this section.

Section D.- This section provides data for the state board of directors and for determining the amount of state aid to the college.

Section E - This section is to be completed only if residence halls are to be built or expanded.



College			RIZONA STATE BOA FOR JUNION Office of the Exe	COLLEGES
SECTION A - New College Students			Enrollment Day Enro	Analysis
Students	LAST	TWO YEARS	CURRENT YEAR	1
	19,19	19,19	19,19	1
County High School Grads County High School Grads Attending Junior College				
(% of Total) Prior Grads from County High Schools				
Out-of-County High School Gra Prior Graús, from Out-of-County High Schools	de.			
Out-of-State Students				
Foreign Students				
Part-Time Day Students Sub Total				i' i' i'
SECTION B - Prior College Students Sophomores (% of Former Freshman Class)				
Fifth Semester Students				
Transfers In				
Sub Total GRAPD TOTAL				



RIZONA STATE BOARD OF DIRECTORS
FOR JUNIOR COLLEGES

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Aris. J.C. Facilities Project Form #1, 1967

Enrollment Analysis Day Enrollment

	CURRENT YEAR			PROJECTED		
	19,19	19, 19	19, 19	19, 19	19, 19	19, 19
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College			_										
Date			-						E	rening E	nro	11me	<u>nt</u>
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SECTION C			1	19, 19		19_	, 19		19	_, 19	_	19	, 19
Full time Students						الجاني المحميد			-,				
Part-time Students							 						المستور الأحاد المروان الأخرور
TOTAL													كالبير التواف التناف في المداولية
enemant h	İ						Ful1	-Time	Sti	ident Eq	uiv	relan	ts (FTSE
Day-time Students					-	7						7	
(% of Total) Evening Students			<u> </u>		-	` 7		7				<u>-</u> -	
(% of Total) TOTAL						ـدــــــــــــــــــــــــــــــــــــ					1		
SECTION E			10	LAST S				CUR	REN	dence Ha	 		pancy
		M	19_ F	, 19 Total	M	F	Total	М	P	19 Total	М	P	Total
County Students					_								
Out-of-County Students			-gii						\dashv				
Out-of-State Students									_				
Foreign Students													
TOTAL											L.		



Ariz. J.C. Facilities Project Form #1, 1967

CURRENT YEAR PROJECTED 19___, 19__ | 19___, 19__ | 19___, 19__ | 19___, 19__ | 19___, 19__ 19___, 19__ -Time Student Equivalents (FTSE) Residence Hall Occupancy PROJECTED CURRENT YEAR 19___19_ Total M , 19__ 19 Total Total Total Total Total M

Evening Enrollment

Ariz. J.C. Facilities Project Form #II, 1967

ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLLEGES Office of the Executive Director

<u>Curriculum Analysis</u> <u>Instructions</u>

- I. Prior to beginning the survey, it is essential to obtain the following data:
 - A. The current full-sime enrollment (students carrying 12 or more units).
 - B. The anticipated full-time enrollment for the year for which room requirements are to be determined.
 - C. The name of each faculty member, the courses he teaches and the enrollment in each class as of October 1 of the respective year.
 - D. A copy of the college catalog and a class schedule listing courses by department or sub-department.

II. Section A

- A Use only one sheet for each course (or group of similar courses); i.e., Business 1A, 1B, 50, 70, etc., should be on one sheet (yellow). Use separate sheats for laboratory or shop classes (white).
- B. Enter each instructor's name in Column 1. Include <u>all</u> instructors teaching the courses listed on the respective page.
- C. Enter each course, name and section number in Column 2 alongside the instructor's name.
- >. In Column 3 cuter the enrollment in each class and the number of times this class meets each week. For 1-1/2 or 2-hour classes use two lines. Use three lines for 3-hour laboratory sections.
- L. Do not include P.E. classes meeting on the field, at the pool, in the main sections of the gym, or other specialized arade. Include only those using standard-type classrooms.
- F. fultiply each class enrollment by the number of times the class meets each week, add these figures horizontally and enter the total in Column 4 for student hours per week.



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- G. Using the same procedure as in F, add the figures vertically to determine student hours per week meeting each hour. This will indicate the periods of light or heavy utilization of the college facilities.
- H. Total Column 4 vertically for each page.
- I. The sum of all Column 4's of al' pages will give the total student hours per week for the entire college. This is a key figure and must be accurate.
- J. Recheck all computations by machine before proceeding to Section B.

Section B

During the processing of Section B it will be necessary to have two conferences to determine college policy in regard to curriculum emphasis, class size, utilization, classes that can use the same rooms, and determination of which existing classrooms are adequate. It is recommended that the following be invited to these conferences: the College President, Dean of Students, Dean of Instruction, Dean of Institutional Research and Planning, Dean of Business Services, Division Chairmen, the College Architect, and the Executive Director of the State Junior College Board. These conferences will usually take two to three hours at each of the two sessions and should be scheduled approximately one week apart.

- A. Complete the information called for on the cover sheet of Section 3.
- B. (Column 1) From the totals at the lower righthand corner of each sheet of Section A, transfer the students hours per week in each course to the space for these courses in Column 1 of Section B.
- C. (Column 2) Divide each of the entries in Column 1 by Item 7 (see Cover Page) to obtain the percentages of student hours per week (Column 2) devoted to each subject. This can best be done on a slide rule. Do not early beyond two decimal digits.
- D. The total of Column 2 for all sheets of Section B should be 100% ± .5 of 1%.
- E. Make five to ten copies of Section B by Verifax, Thermofax, or similar process.



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- F. At this point the first conference should be held. The conference should determine:
 - 1) Which courses are expected to expand, which to remain static regarding enrollment, and which may be dropped or expected to decrease. Each of the percentages in Column 2 must be "adjusted" to the future curriculum emphasis and the adjusted figure recorded in Column 3.

and the enrollment in English will also double, then the figure in Column 2 may also be entered in Column 3 since, as a percentage, the student hours per week will grow only as the enrollment grows. If, however, additional classes in English will be required of each student for graduation, then the figure in Column 3 must be increased in direct proportion to the added hours required. If a certain class is to be dropped, then the figure in Column 2 must be dropped to 0 for Column 3 and this amount added to other classes in Column 3.

- 2) Column 3 must add up to $100\% \pm .5$ of 1%.
- 3) While the first conference is in session, the members present should determine the desired class size for each course listed. This may be the "limit" already determined for each course or the desired optimum class size for the future. (Use separate lines if classes are divided into large lecture groups and smaller discussion or quiz groups.)
- 4) Enter these class-size data in Column 5.
- of classroom availability is desirable (from 8:00 a.m. to 5:00 p.m.) for each full week. (28 hours for lecture-discussion, 24 hours for lab-shop.) Enter these, or the figure determined by the conference, in the appropriate lines of Column 7 or Section B.
- G. Complete the first portion of Section B for presentation at the second conference:
 - 1) Multiply Item of Cover Sheet (Future Student Hours Fer Week) times the future curriculum emphasis (Column 3) for each course.
 - 2) This will yield the Future Student Hours Per Week in each course for Column 4.



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- 3) Divide each figure in Column 4 by Column 5 to obtain the class group per week for Column 6.
- 4) Divide Column 6 by Column 7 (Hours Available for Scheduling) to obtain the answers for Column 8 (Computed Teaching Space Needs).
- H. At this point the second confedence should be held.
 - The date are now ready for the second conference. At this conference each member should have copies of Section B completed to Column 8. As many of the figures in Column 8 are decimals, i.e., 3.7, 6.3, etc., it will be necessary to round these out to whole washers since we are concernable with classrooms and cannot build fractional rooms. The confermes should:
 - a) Use the next whole number if the decimal is over .5. Exceptions may be necessary, however.
 - b) Seek courses that can share the same rooms and combine the figures for these. For example if Column 8 shows 5.3 for Foreign Languages and 8.5 for English, these can be combined for a total of 14.8 or 15 classrooms.
 - 2) Column 10 (Adequate Teaching Spaces Available). For this inventory of existing facilities, all classrooms in temporary, portable, former military or similar buildings, should be considered inadequate and not included in this inventory. Centain rooms in permanent buildings also may be judged inadequate.
 - 3) Subtract Column 10 from Column 9 to determine the number of teaching spaces needed.



SECTION A CLASSROOM ASSIGN				Dire	ect.	fon						<u> </u>				UM ANAL	
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CURRICULUM AMALYSIS Student Hour Enrollment

line for each instructor
YELLOW form for each lecture course
WHITE form for each laboratory course
column 4 the "ED" totals to the proper subject
lated department in column 1 on Form B

Page Number

Date

"Prepared by"

Ariz. J.C. Facilities

Project Form #II, 1967

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CURRICULUM ANALYSIS Student Hour Enrollme SECTION A Laboratory Assignments Directions Use a separate line for each instructor College Use a separate YELLOW form for each lecture co Use a separate WHITE form for each laboratory Department Transfer from column 4 the "ED" totals to the line of its related department in column 1 on Sub-department or Subject hr.=Hour of day class meets (e.g. 8:00-8:30) -3-E=Class Enrollment -1--2-D-Number of days class meets per week COURSE INSTRUCTOR ED-Student hours (class enrollment times number of days class meets per week) 3rd hr. 4th hr. 5th hr. 6t 2nd hr. 1st hr. E D ED E E | D | ED E D ED DI ED E D ED



TOTAL ED

CURRICULUM ANALYSIS Student Hour Enrollment

line for each instructor
YELLOW form for each lecture course
WHITE form for each laboratory course
solumn 4 the "ED" totals to the proper subject
lated department in column 1 on Form B

FACTS:

ets (e.g. 8:00-8:30)

Page	Number
Date	

"Prepared by"
Ariz. J.C. Facilities
Project Form #II, 1967

EXAMPLE:

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CURRICULUM ANALYSIS Cover Page

SECTION B

			
1.	College	Location	
	Date of Survey	Done By	
3.	Predicted "full time"	Year	
4.	Present "full till" enrollment		
5.	Predicted Increase		
6.	Working Factor (line 3 ÷ 4)		
7.	Present grand total student hrs. per/wk		Year
8.	Future grand total student hrs. per/wk		Year (

Summary of Instructions for Completing Section B

- 1. Fill spaces above with appropriate entries.
- 2. On the sheets that follow:

TEM

- a. In Column 1 place student hours per week for each course from Column 4, Sect
 b. Divide Item 7 (above) into Column 1 entries to calculate Column 2 (percentage)
- 3. Column 3 is determined at the first conference. (see complete instructions for g
- 4. Multiply Column 3 by Item 8 above to get Future Student Hours Per Week for Column
- 5. Class size (Column 5) is determined at the first conference.
- 6. Divide Column 4 by Column 5 to determine class groups per weak (Column 6).
- 7. Divide Column 6 by hours available for scheduling (Column 7) determined at first This will give the Computed Teaching Space Needs (Column 8).
- 8. Column 8 figures should be adjusted at the second conference to yield the whole n
- Decisions regarding adequacy of present facilities should be determined at the se (If being used for new college this column is "0".)
- 10. Teaching spaces required Column 10.



Ariz. J.C. Facilities Project Form #II, 1967

CURRICULUM ANALYSIS		Form	#II, 1967
Cover Page			
SECTION B			
Location			
Done By			
Year	-		
	V		
	Year (line 7 m line 6)		
	Year (line 7 x line 6)		
(see complete instruction	percentage stud./hrs./week). ns for guidance)		
Student Hours Per Week for conference.			
roups per week (Column 6). g (Column 7) determined a	t first conference.		
(Column 8).	whole numbers for Column 9.		
es should be determined as	t the second conference.		



DRRICULUM ANALYSIS FORM B - PAGE I $bllege_{_}$ Ariz.J.C. F ite Project Form (1) (2) (4) (3) (6) (5) Per cent Class Present Future Future Class student of total adjusted student size-groups Depart-(College Subject hours student per cent hours per ment policy) per week hours student per week week hours/wk. per week English Reading Lab. Drama - Speech Foreign Language Mathematics "Liberal Arts" or courses using general classrooms Social Science Anthropology Economics Geography History Humanities Orientation Philosophy Political Science Psychology Sociology Library Science Introduction to Ed. Art Appreciation, History, Theory Drawing - Painting Crafts Photography Lecture Lab. Music Hist., Theory,



뫂

Appreciation, Lect.

Instrumental (Practice groups)

M B - PAGE I

Ariz.J.C. Facilities Project Form #II, 1967

	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
e	Future	Class	Class	Hours	Computed	Adjusted	Adequate	Additional
sted	student	size	groups	avail-	teaching	teaching	teaching	teaching
ent	hours	(College	per	able	spaces	spaces	spaces	spaces
mt	per week	policy)	week	for	needed	needed	available	needed
/wk.	ſ			sched-				
	1	1		uling				
								
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RRICULUM ANALYSIS

FORM B - PAGE 2

_		(1)	(2)	(3)	(4)	(5)	(6)	(7)
		Present	Per cent	Future	Future	Class	Class	Hours
Depart		student	of total	adjusted	8	size	groups	availat
ment	Subject	hours	student	per cent	hours	(College	per	for sch
	_	per week	hours	student	per week	policy)	week	uling
ļ			per week	hours/wk.				
	Accounting, Bkkpg.							
I	Typing, Shorthand						-	
	Office Trng. (Mach.)				1			
	Business English							
	Law, Math., etc.							
	Distributive Educ.							
	Data Processing							
8	Human Relations							
Business	Marketing							
18	Sales							
2	Work Experience							
	Function of Business							
	Biol., Zool., Bact.							
	Lecture		<u> </u>				<u> </u>	
ø,	Lab.							
ŭ	Anatomy, Physiol.							
Science	Lecture							
Š	Lab.							
,e	Botany, Nature Study							
Life	Lecture		1	1			1	
	Lab.							
	Home Econ. Lecture							
ى	& Lab. Combined	And the state of the latest	The second second					
	Nursing							
ŭ 8	R.N. Program		1	1				
one Econ. Nursing	L.V.N. Program						1	
4 H	Dental Assist.						1	
Home Nu:	Medical Assist.						1	
品		+		 	-		 	1
	<u> </u>	L	<u> </u>			1		



FORM B - PAGE 2

)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ire	Class	Class		Computed	Adjusted	Adequate	Additional
dent	size	groups	available	teaching	teaching	teaching	teaching
rs	(College	per	for sched-		spaces	spaces	spaces
week	policy)	week	uling	needed	needed	available	needed
النواعة المستقل الترايين						<u> </u>	
ستصنعت الباجوع							
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RICULUM ANALYSIS
lege_____

	· · · · · · · · · · · · · · · · · · ·				FORM B -	PAGE 3		
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Depart- ment	Subject	Present student hours per week	Per cent of total student hours per week	Future adjusted per cent student hours/wk.	Future student hours per week	Class size (College policy)	Class groups per week	Hours availal for sci uling
	Health Education		The week	MINUS OF WK.		 	-	-
Ed.	Hygiene			1	 		+	-
	First Aid						-	
8	Coaching						**	-
Phys.	Calisthenics & Games			1.		 	 	
	Cutdoor			L		1	 	-
	Physical Science, Lec.	7			1	-	-	+
	Lab.				T		-	+
Science	Geology, Lecture						-	+
4	Lab.							-
Š	Astronomy				1		-	+
	Meteorology				I			
Physical	Chemistry, Lecture						1	1
8	Lab.							
E I	Physics, Lecture						 	+
	Lab.							+
	i.or Man & His Phy.Wld.							1
	Strength of Mat. Statics							
ine	Engineering Drawing				1		-	-
g l	Surveying					-		
M					-			-
- <u> </u>	Aero Ground School							
	Architectural Draft.				1			-
	Aviation Mechan.				1			<u> </u>
Technical trial	Agriculture, Lecture				 			<u> </u>
fonal , Tech Industrial	Lab.				 		 	
·	Building Trades				 			
ğ ğ	Electronics, Lecture				 		-	
[개부	Lab.				 			
ocat and	Law Enforcement				 			
Vocational and Indus	Technical Drafting				 			
"					4			
								8



PORM B - PAGE 3 (4) **(5)** (6) (7) (8) (9) (10) (11) Adjusted Hours Class Computed Adequate Additional uture Class available teaching teaching teaching tudent size groups teaching (College ours per for schedspaces spaces spaces spaces policy) week uling needed needed available er veek needed



RRICULUM	ANALYSIS
llege	
te	

FURM B - PAGE 4

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Depart- ment	Subject	Present student hours per week	Per cent of total student hours per week	Future adjusted per cent student hours/wk.	Future student hours per week	Class size (College policy)	Class groups per week	Hours availa for so uling
11	Shops:							
con	Automotive							
	Machine							
ot o	Metals							
	Welding							
H Z H	Refrig.	ä						
	Power Plants							
Vocation Technical, Industrial	Lect. Heavy Equip.							
<u> </u>	Lab. Heavy Equip.							



JRM 5 - PAGE 4

(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
uture tudent ours er week	Class size (College policy)	Class groups per week	available for sched-	, -	Adjusted teaching spaces needed	Adequate teaching spaces available	Additional teaching spaces needed
		-		,			
							·
	1						

College	Number and Capacity of Additional Teachi						
Phase I 19,19							
Classrooms	Number	Phase I 19					
	Capacity*						
Laboratories & Shops	Number				,		
(List Kinds)	Capacity*	#					
	Number		,		,		,
	Capacity*						
	Number		,				,
	Capacity*						
	Number						
	Capacity*						
	Number						
	Capacity*						
Activity Areas (List Kinds)	Number						
-	Capacity*						
	Number						
	Capacity*						
	Number				,		
* Indicate Capacity	Capacity*			_ 			

SECTION B - SUMMARY
Capacity of Additional Teaching Spaces Needed

Ariz. J.C. Facilizies Project Form #II, 1967

			Ph a 19	se II _,19			Phase 1 19,19	11	
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	20(1)			-\	discretion		octive c	11000	

um), 90(large)]

Groupings at the discretion of respective college.



olle	ge				FOR JUNI	OARD OF DIRECTOR COLLEGES
	ct			Offi	ice of the I	executive Dire
		ł				llocation*
		Last Yo		Current		Pho
			19,19	19,19		,
		Construction Size	Usable Space	Construction Size	Usable Space	Construction Size
I.	INSTRUCTIONAL &	1,000				
	LIBRARY FACILITIES					
	General Classrooms					
	Instructional Labs					
	Other Teaching					
	Pacilities Paces				1	
	PE Rooms Other					
	Service Areas for					
	Teaching Facilities			* 200 4.4		
	Library Facilities					
	Paculty Office Area					
II.	INSTRUCTION -					
	RELATED FACILITIES	1				ì
	Research Facilities				-	1
	Admin. Facilities					
	Student Study Facil.					
	Other Instruction-				1	
	Related Facilities				•	İ
	- Instructional				_i_	
	TV Control & Studio * Categorization an			1 1 . C1 1 A		**************************************

ERIC Profitest Provided by ERIC ARIZONA STATE BOARD OF DIRECTORS
FOR JUNIOR COLLEGES
Office of the Executive Director

Ariz. J. C. Facilities Project Form #III, 1967

rrent		location* Phase	1	PROJECT Phase		Phase	III
ion	19, 19			19,19 Construction Size	19,19 Usable Space	19,19 Construction Size	19,19 Usable Space
					·		

initions & O.E. Regulation OE - 51008, 1964

ERIC PROJECT FRIC

	1)		1		1
		Last Ye	ear	Current	Year	
		19,19	19,19	19,19	19,19	19,19
		Construction	Usable	Construction	Usable	Construct
II.	INSTRUCTION - RELATED FACILITIES	Size	Space	Size	Space	Size
	(Continued)					
	(concruded)					
	-Programmed Instr					
	-Central Computer					
	<u>Facilities</u>					
	-Musuem		ويونيون والمراجع المراجع المراجع المراجع المراجع			كند الكهوانية بالماكية والماكية
	-Auditorium or					
	Theater			•		
	-Conference Rooms					
	-Green House		مندان ميوان المساوي المراجع المالية والإسابات			
	-Animal Room SUB TOTAL					
	300 202.0					
III.	RELATED SUPPORTING					:
•	FACILITIES					
						,
	Areas necessary for					
	utilization, maintenance					Š
	and operation of academi	LC		}		·
	facilities including					
	building service area & circulation areas.	ia i				
	(Identify by building)					
	- (Identity by ballatus)	ļ				
	•					إيناكيا فيفيد وسنطاط سندي ومسط
	•					
	SUE TOTAL					
IV.	AUXILIARY ENTERPRISES					
	mand damage Walls					
	Residence Halls				<u> </u>	
	Food Service				1	3
	EVOU NELVICE			·	 	



Current 1	(ear	Phase	1 .	PROJECTED Phase	II ,	Phase	
,19 ruction	19,19 Usable Space	19,19 Construction Size	19,19 Usable Space	19,19 Construction Size	19,19	19,19 Construction Size	19,19 Usable Space
	Space						
,							,
						1	
		 					
						1	



	Last Ye 19,19 Construction Size	ear 19,19 Usable Space	Current 19,19 Construction Size	Year 19,19 Usable Space	Phase 19,19 Construction Size
IV. AUXILIARY ENTERPRISES (Continued)					V
Student Center Health Center Other Service					
Type Buildings SUB TOTAL					
GRAND TOTAL					

Space Utilization*

Percentage** of Use for	Last Year 19,19	Current Year 19,19	Phase I 19,19
Classrooms (%)		:	
Laboratories (%)		i	
Activity Areas (%)***			

^{*} As of October 1

*** Music practice rooms, art studios, gymnasium, heater or auditorium, etc.



^{**} Based on 5 days x 7 hrs/day for daytime enrogments and for instructional purposes of Utilization Goal: Classrooms - 80%; Laboratoges - 70%; Activity Areas - 70%.

				OJECTED		****	·**
rrent Y	rear	Phase I	1	l Phase	II	Phase I	
ction	19,19 Usable Space	19,19 Construction Size	19,19 Usable Space	19,19 Construction Size	19,19 Usable Space	19,19 Construction Size	19,19 Usable Space
:							

3pace Utilization*

rent Year ,19	Phase I 19,19	Phase II 19,19	Phase III 19,19
:			

and for instructional purposes only. 70%; Activity Areas - 70%. or auditorium, etc.



roject	ollege
Ä	, c

Ariz. J. C. Facilities Project Form #IV, 1967

ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLLEGES Office of the Executive Director

Financial Analysis

TOTAL	Other (Identify)	Other State Funds (Identify)	Federal Funds (Identify)	Revenue Bonds (Identify)	State Aid - Capital Outlay Special District Levy General Obligation Bonds	
\$\$ TOTAL \$	S.		\$	S		Current Funds
TOTAL \$	\$\$	\$	S	\$	w w w	Estimated Additional Funds Available Current Year Next 19,19
GRAND						tional able Next Year 19,19
				\$		Total Funds Available For Project

ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLLEGES Office of the Executive Director

Architect's Analysis Section A

Check items appearing on plans and in specifications submitted for approval

1.	Genera	l Instructions
	s. () Architect's name, county, district, and college name) Date of drawing and date of all revisions
2.	Site P	lan
	a. () Scale
	b. () Point of Compass and data on prevailing and storm winds, where significant
	c. (Copy of engineer's survey (engineer's survey to be furnished by district)
	d. () Topographical conditions and easements
	e. () Existing and proposed grades
	f. () Size and shape of entire site with over-all dimensions
	g. () Number of acres - gross
	h. () Number of acres - usable
	_) Possible future land acquisition
	•) Existing adjacent streets, highways, curbs, gutters, side- walks, railroads, etc. (designate major highways, country roads, or residencial streets)
	k. () Location of utility services and on-site distribution
	1. () Existing buildings or structures to be demolished (if any)
	m. () Existing buildings or structures to remain (if any)
	n. () Complete layout of building facilities, including dormitories corridors, and covered walks - () existing, () proposed new () future enrollment, to be master planned
3.	<u>Site I</u>	Development
		ff-site work contemplated in project (streets, curbs, gutters, idewalks, etc.)
	Servi	ce on-site development (above normal)
	a. () Rough grading, () Fill, () Retaining walls
	ъ. () Drainage (catch basin, etc.), () Erosion control
	c. () Other
	Gener	al on-site development (normal)
	a. () Outdoor physical education teaching stations and playfield development - () Existing, () Proposed new, () Future



	Gene	ral (on-site development (Continued)
	b.	()	Parking (capacity)
			Bus loading zone
	d.	()	All turfed areas (indicate sprinklers, if any)
	e.	()	Walks, driveways, paved areas, fencing, walls, location of incinerator, if any, and location of flagpole
4.	Floor	r pl	ans of proposed buildings
		()	
	ъ.	()	Location, sizes and functions of all rooms
	c.	()	Indication of non-structural or flexible interior walls
			Location of all doors, windows, and required exit facilities
	e.	()	Suggested equipment and casework, chalkboard, tackboard, bulletin boards, etc.
			Seating capacity of auditorium, little theater, etc.
	g.	()	Location of drinking fountains, toilets, janitor room, and hose bibbs
5.	Gene	<u>ral</u>	description of:
	a.	()	Type of construction and materials
	ъ.	()	Acoustical adequacy of all spaces
			Aesthetic features of proposed design, etc.
	d.	()	Any other elements of the plan which will help responsible officials to better understand the proposed plant design
6.	Турі	cal	gress sections (not less than 1/8" = 1' scale)
			ical cross sections through classrooms and corridor or covered , auditorium library, gymnasium, and other major buildings
	a.	()	Approximate clear ceiling heights
			Approximate height of window sills from floor
			Location of vented sash
	d.	()	Clear widths of corridors (indicate overhang and paved area)
7.	Elev	atio	ns (not less than 1/8" = 1' scale)
	a.	()	Principal interior elevations showing casework, chalkboard, tackboard area, etc.
	ъ.	()	Principal exterior elevations showing window venting, doors, etc.
8.	Desc	ript	ion of:
	a.	()	Types of heating, ventilating, and air conditioning systems
	•	, .	including air change information, etc.
	b.		Daylighting systems:
			() Source size, location () Source brightness (estimate)
			() Source brightness (estimate) () Control media such as low transmission glass, louvers,
			overhangs, etc.
			() Anticipated lighting levels
			/ \ Warretharen TTBueru# Tesero



8. <u>Description of</u>: (Continued)

ERIC

c. () Electric lighting systems:

 () Source type and location, mounting héights, etc.
 () Source compliance to American Standards Association Scissors Curve Limitations
 () Light distribution patterns
 () Brightness ratios anticipated between light sources and major interior surfaces
 () Maintained lighting levels

d. () Use of color and materials as related to light reflectivity of finished surfaces

ARIZONA STATE BOARD OF DIRECTORS FOR JUNIOR COLLEGES Office of the Executive Director

Tentative Estimate of Project Costs Section B

A.	Acq	uisition of Site			
	1. Purchase price of property				
	2.	Appraigals			
	3.	Boundary survey			
	4	Other costs			
	5	Total - Acquisition of Site\$			
	٥.	Ideal - Eddigieron of organism			
В.	Sur	veys and Plans			
	1.	Architect's fee\$			
	2.	Tonographical surveys			
	3.	Preliminary tests			
	Δ.	Other costs or fees			
	5.	Total - Surveys and Plans\$			
C.		<u>struction</u>			
	1.	Site Development			
		a. Utility services\$			
		b. Off-site development\$			
		c. Service on-site			
		developmenc\$			
		d. General on-site develop-			
		ment including fixed			
		playfield equip't\$			
		Goshmetet of			
		Site Development\$			
	2.	General Construction			
		a. Demolition\$			
		b. Reconstruction\$			
		c. New construction\$			
		d. Sub-total			
		General Construction\$			
	_	Total - Construction\$			
	3.	Total - Construction			
	Ta	sts - Construction\$			
D.					
E.	In	spection\$			
-					
F.	Fu	Furniture and Movable Equipment (except playfield equip't.\$			
	To	Total - Items A through F\$			
G.	to	congencies (not to exceed 10% of the first \$50,000 of the tal shown for Items A through F, plus 5% of any amount excess of \$50,000)\$			



Ariz. J.C. Facilities Project Form #VI, 1967

		BOARD OF DIREC	TORS		
_		FOR JUNIOR COLLEGES Office of the Executive Director			
Project					
	Financial	Feasibility			
<u>Metl</u>	nod of Financing				
1.	District Funds:				
•	a. Current budget funds	•	\$		
	b. Bond funds (voted - datec. Bond funds (to be voted - d		\$		
	c. Bond runds (to be voted - d	ace)	9		
2.	State Funds:		•		
	a. Original matching		\$		
	b. Yearly capital outlay-appo	rtionment	7		
3.	Federal Funds:		•		
	a.		\$		
	b.		Ϋ		
4.	Other Funds: (explain)		\$		
	Total Funds Available		\$		
	Estimated Project Cost (Item H,	Form V)	\$		
Lis	t of Planning Participants				
Nam	es of principal planning consultants on this project including project				
arc	hitects, engineers, district staff	t, state personi	nel, etc.		
Sig	natures and Dates				
Sig	redFinancial Advisor	Date			
	Financial Advisor				
Sig	ned	Date			
	·Architect				
ADD	roved:	Approved:			
	te Board of Directors	Governing Board of			
for	Junior Colleges		.		
•					
в у _		w J.			
Dat	:e	Date			

